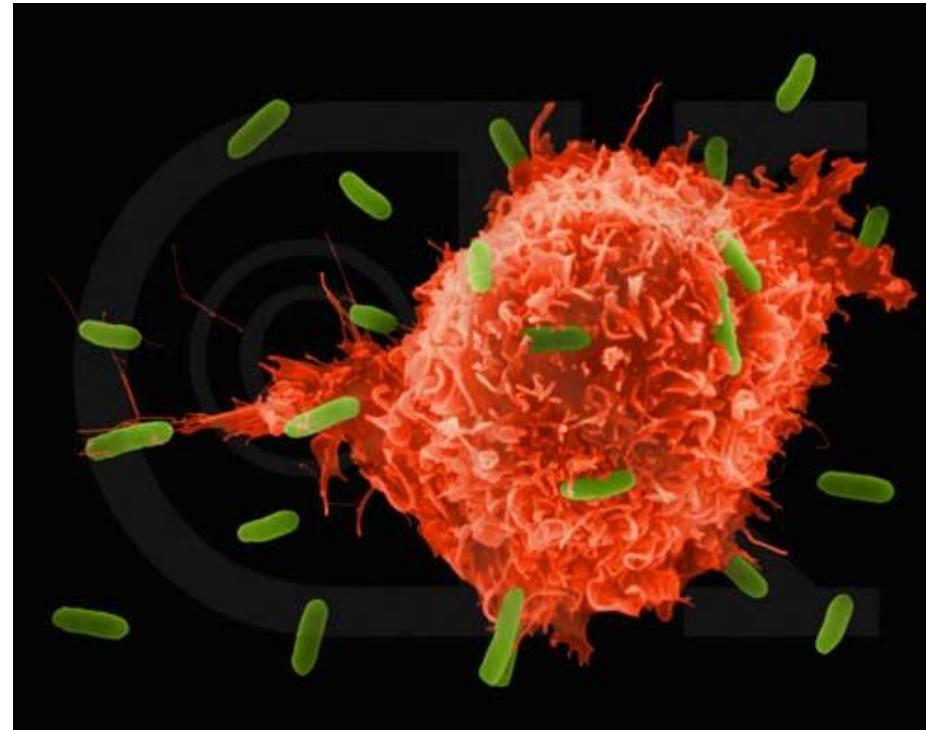


Central District Health Department

Disease Surveillance Summary-2008



Disease Surveillance Summary

- Disease Burden
- 5 Year Trend Data
- Intestinal Illnesses
- Bloodborne Diseases
- Tuberculosis
- Legal Authority
- Outbreak Summary

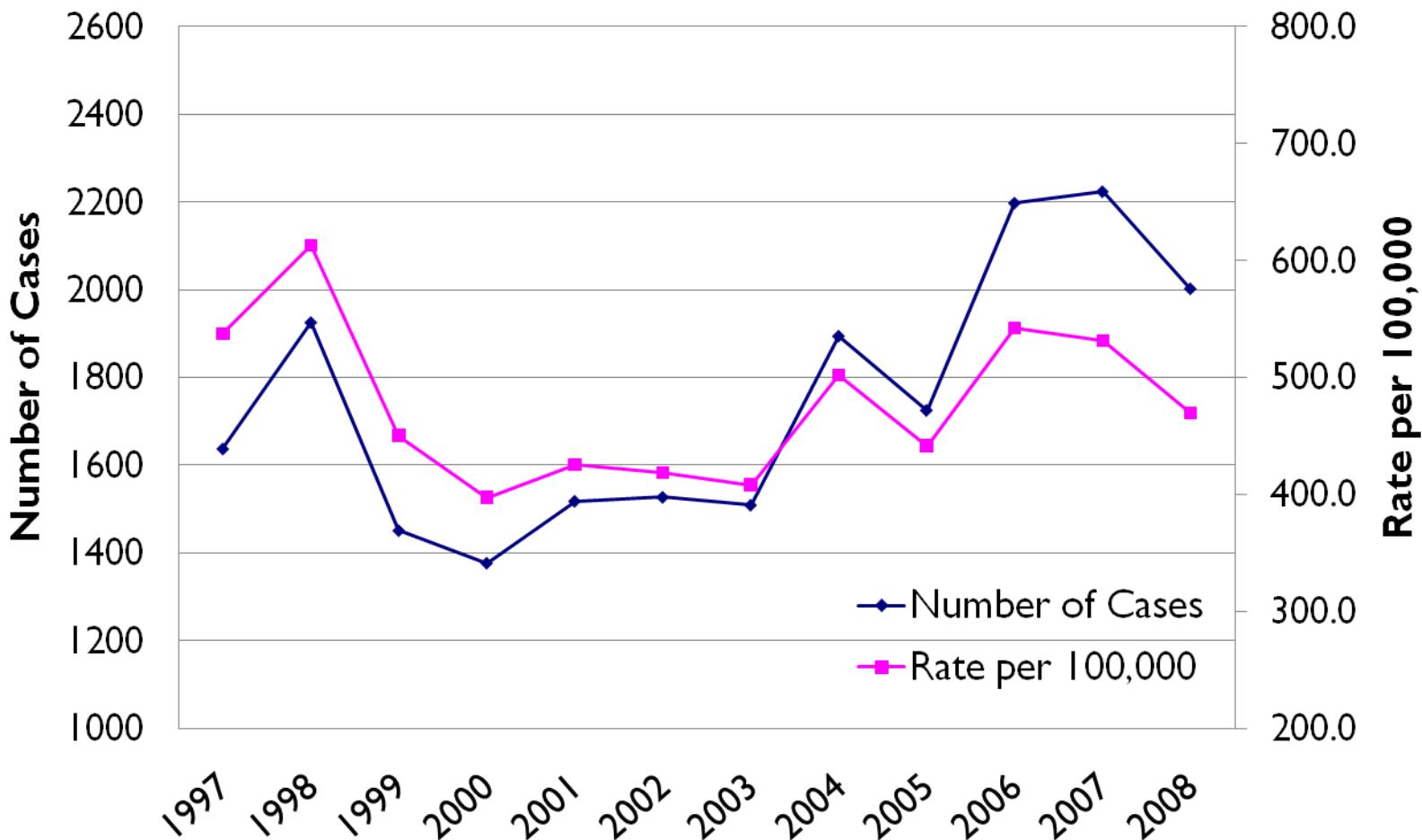


Infectious Diseases

- **DISEASE BURDEN**

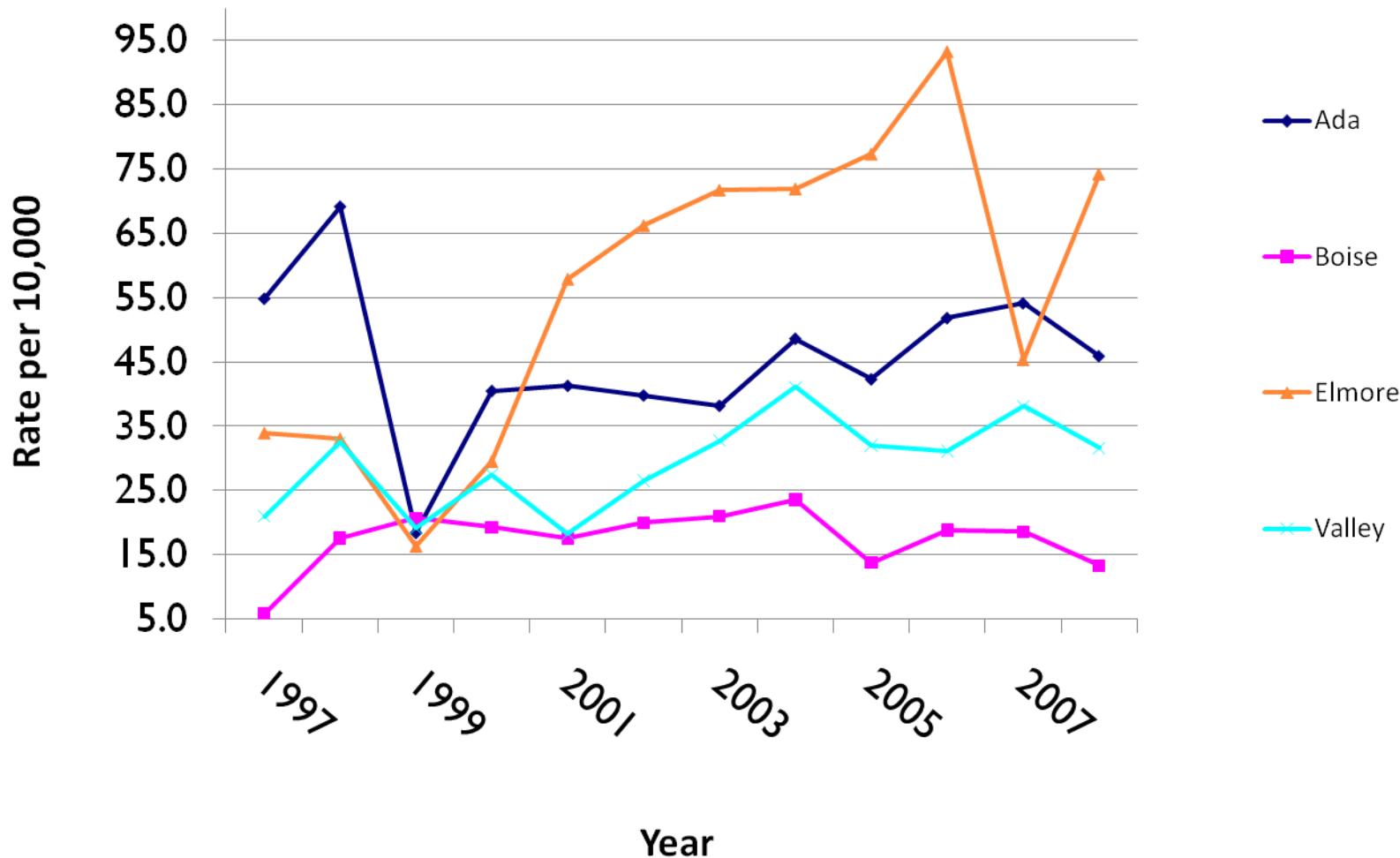
Reportable Disease Burden

1997-2008

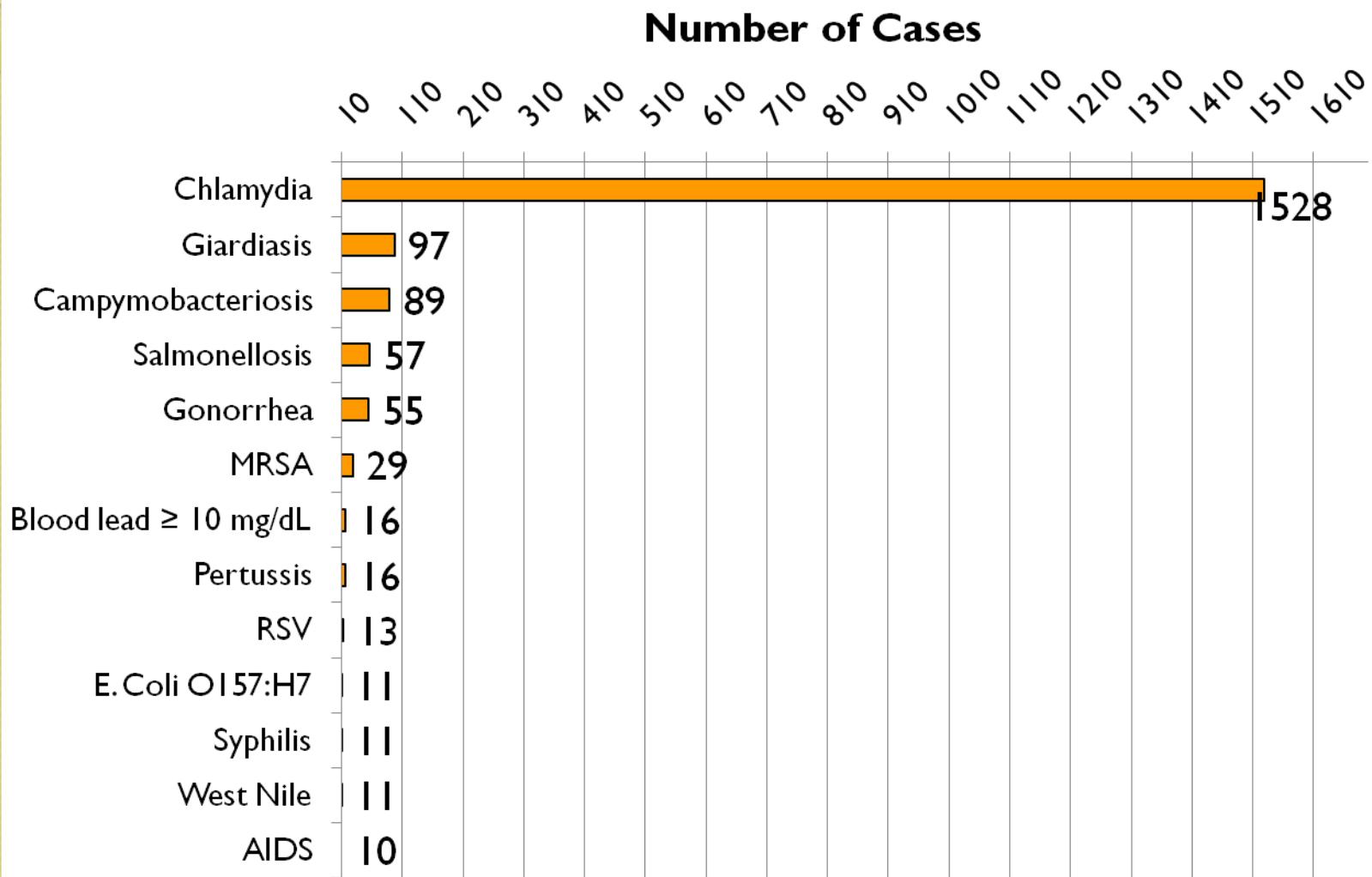


Disease Burden by County

1997-2008



Top 10 Reported Diseases 2008



Infectious Diseases



5 YEAR TREND DATA

5 Yr Disease Activity Summary

Disease	2004 # (Rate)	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)
AIDS	4 (1.1)	12 (3.1)	10 (2.5)	5 (1.2)	10 (2.3)
Amebiasis	4 (1.1)	1 (0.2)	0 (0)	5 (1.2)	4 (0.9)
Blood Lead Poisoning	4 (1.1)	17 (4.3)	10 (2.5)	15 (3.6)	16 (3.8)
Campylobacteriosis	59 (15.6)	50 (12.8)	75 (18.5)	56 (13.4)	89 (20.9)
Chlamydia	968 (256.1)	1057 (270.1)	1264 (311.2)	1389 (331.9)	1528 (358.4)
Cryptosporidiosis	2 (0.5)	3 (0.8)	16 (3.9)	237 (56.6)	6 (1.4)
E. Coli O157:H7	13 (3.4)	5 (1.3)	13 (3.2)	15 (3.6)	11 (2.6)
E. Coli Non O157:H7	0 (0)	0 (0)	0 (0)	2 (0.5)	5 (1.2)
Encephalitis, viral or aseptic	1 (0.3)	0 (0)	0 (0)	1 (0.2)	0 (0)

Rate per 100,000

5 Yr Disease Activity Summary

Disease	2004 # (Rate)	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)
Giardiasis	83 (22.0)	62 (15.8)	78 (19.2)	97 (23.2)	97 (22.8)
Gonorrhea	39 (10.3)	53 (13.5)	107 (26.3)	109 (26.0)	55 (12.9)
Haemophilus influenzae, invasive	1 (0.3)	2 (0.5)	1 (0.2)	2 (0.5)	2 (0.5)
Hantavirus pulmonary syndrome	0 (0)	0 (0)	0 (0)	1 (0.2)	0 (0)
Hepatitis A	5 (1.3)	4 (1.0)	2 (0.5)	3 (0.7)	3 (0.7)
Hepatitis B (acute)	6 (1.6)	5 (1.3)	5 (1.2)	3 (0.7)	6 (1.4)
Hepatitis B (chronic)	20 (5.3)	47 (12.0)	64 (15.8)	50 (11.9)	?
Hepatitis C (chronic or resolved)	20 (5.3)	188 (48.0)	65 (16.0)	79 (18.9)	?

Rate per 100,000

5 Yr Disease Activity Summary

Disease	2004 # (Rate)	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)
HIV	9 (2.4)	15 (3.8)	12 (2.9)	15 (3.6)	9 (2.1)
HTLV 1	0 (0)	0 (0)	3 (0.7)	0 (0)	0 (0)
HTLV II	0 (0)	0 (0)	4 (1.0)	nra	1 (0.2)
Legionellosis	4 (1.1)	1 (0.2)	5 (1.2)	3 (0.7)	1 (0.2)
Lyme Disease	0 (0)	0 (0)	3 (0.7)	0 (0)	3 (0.7)
Malaria	?	0 (0)	0 (0)	6 (1.4)	0 (0)
Meningitis, viral or aseptic	14 (3.7)	5 (1.3)	4 (1.0)	6 (1.4)	4 (0.9)
Mumps	?	0 (0)	1 (0.2)	4 (0.9)	0 (0)

Rate per 100,000

5 Yr Disease Activity Summary

Disease	2004 # (Rate)	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)
Neisseria meningitidis	3 (0.8)	2 (0.5)	0 (0)	2 (0.5)	2 (0.5)
Norovirus	nra	nra	3 (0.7)	1 (0.2)	8 (1.9)
Pertussis	0 (0)	0 (0)	12 (2.9)	8 (1.9)	16 (3.8)
Pneumocystis carinii pneumonia (PCP)	?	1 (0.02)	0 (0)	5 (1.2)	5 (1.2)
Rocky Mountain Spotted Fever	1 (0.3)	0 (0)	4 (1.0)	1 (0.2)	0 (0)
Salmonellosis	51 (13.5)	44 (11.2)	51 (12.5)	48 (11.5)	57 (13.4)
Shiga-toxin producing E. coli	nra	nra	2 (0.5)	9 (2.1)	1 (0.2)
Shigellosis	2 (0.5)	7 (1.8)	4 (1.0)	5 (1.2)	3 (0.7)

Rate per 100,000

5 Yr Disease Activity Summary

Disease	2004 # (Rate)	2005 # (Rate)	2006 # (Rate)	2007 # (Rate)	2008 # (Rate)
Streptococcus pneumoniae, < 18 yrs	?	?	1 (0.2)	0 (0)	3 (0.7)
Streptococcus pyogenes (Group A), invasive	1 (0.3)	2 (0.2)	4 (1.0)	3 (0.7)	2 (0.5)
Syphilis	13 (3.4)	7 (1.8)	0 (0)	4 (0.9)	11 (2.6)
Tuberculosis	3 (0.8)	9 (2.3)	3 (0.7)	3 (0.7)	2 (0.5)
West Nile virus	2 (0.5)	4 (1.0)	333 (82.0)	27 (6.5)	11 (2.6)
Yersiniosis	1 (0.3)	0 (0)	1 (0.2)	1 (0.2)	0 (0)

Rate per 100,000

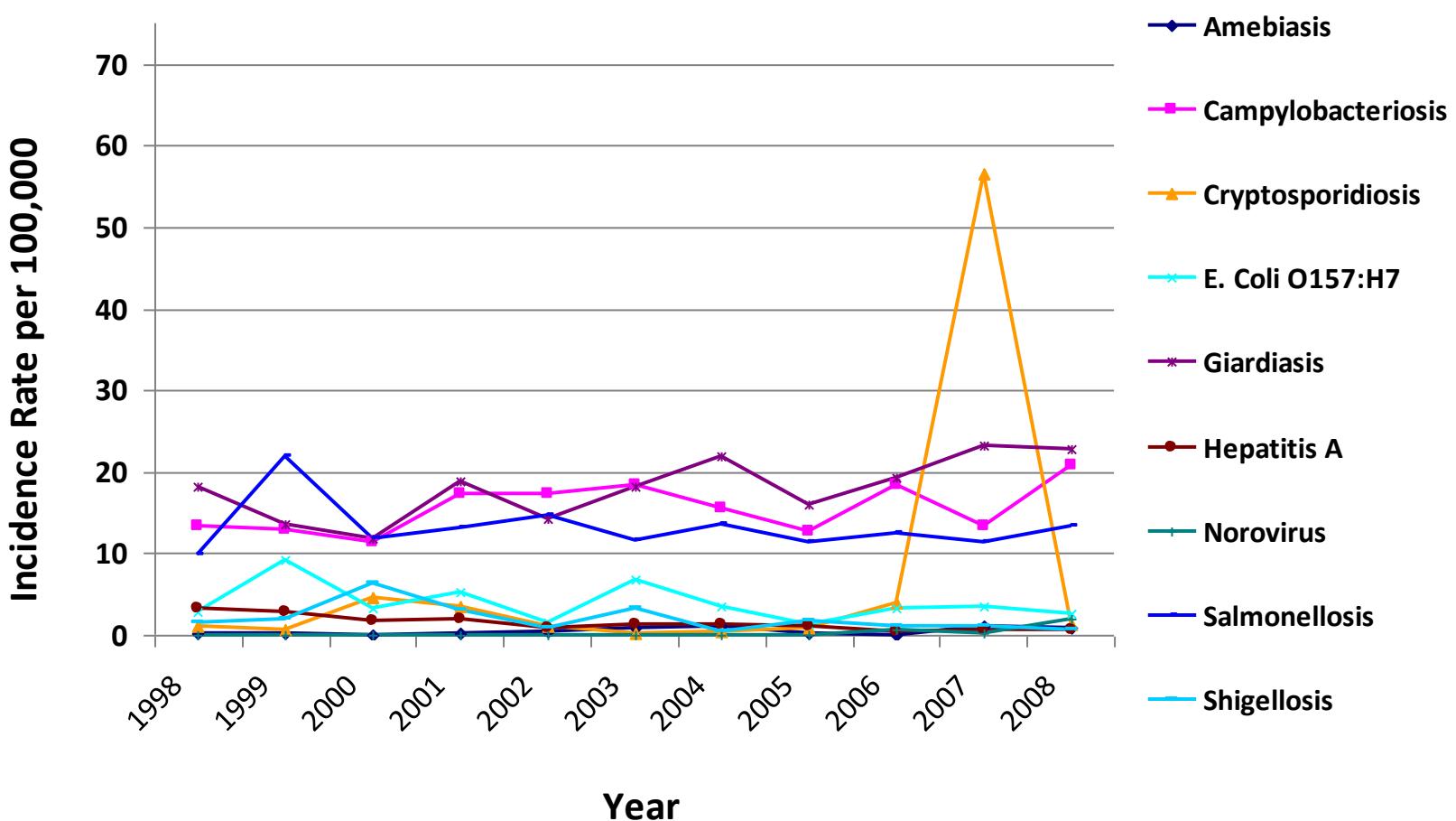
Infectious Diseases



INTESTINAL ILLNESSES

Intestinal Illnesses Summary

Incidence Rate by Disease: 1998 - 2008



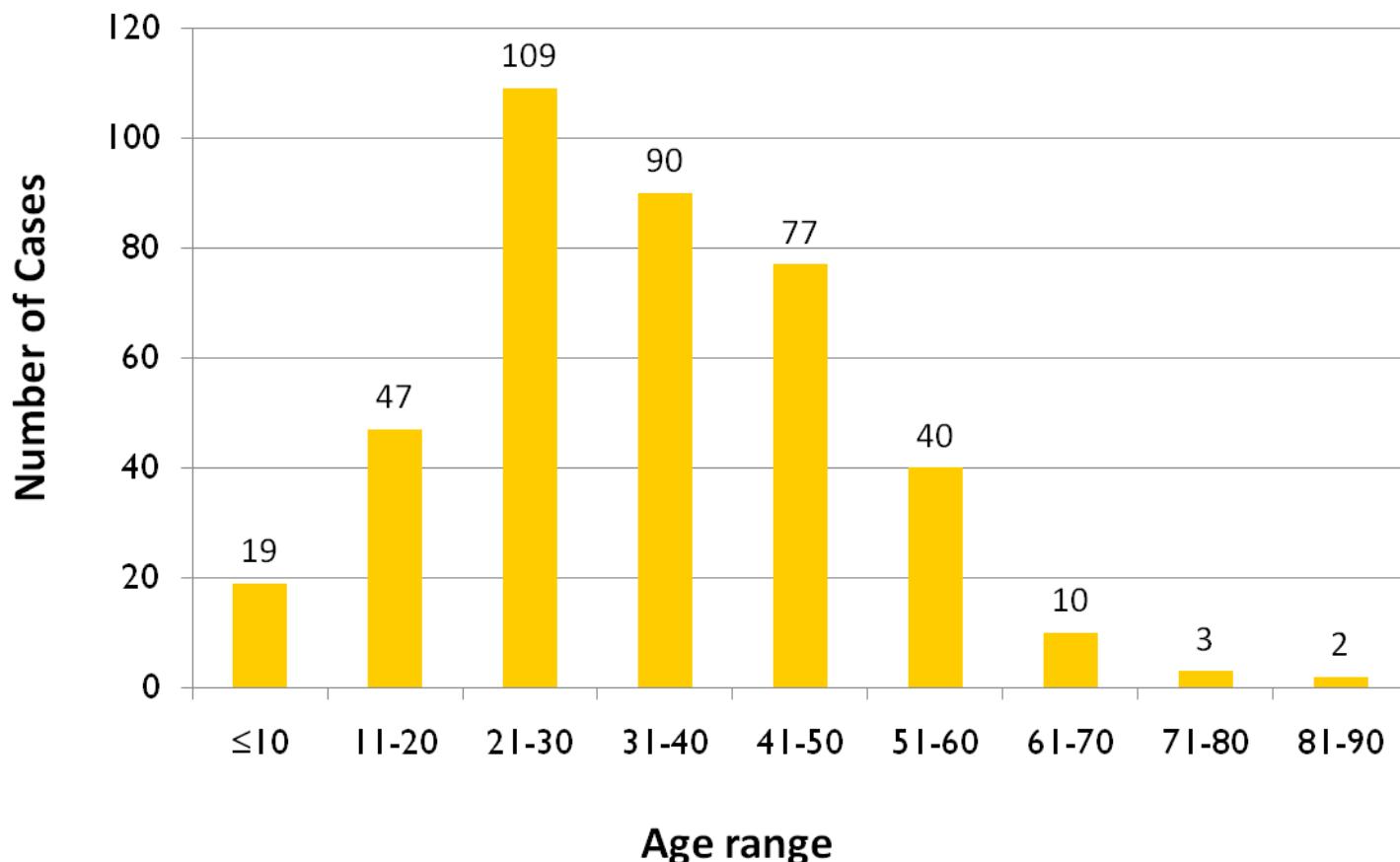
Infectious Diseases



BLOODBORNE DISEASES

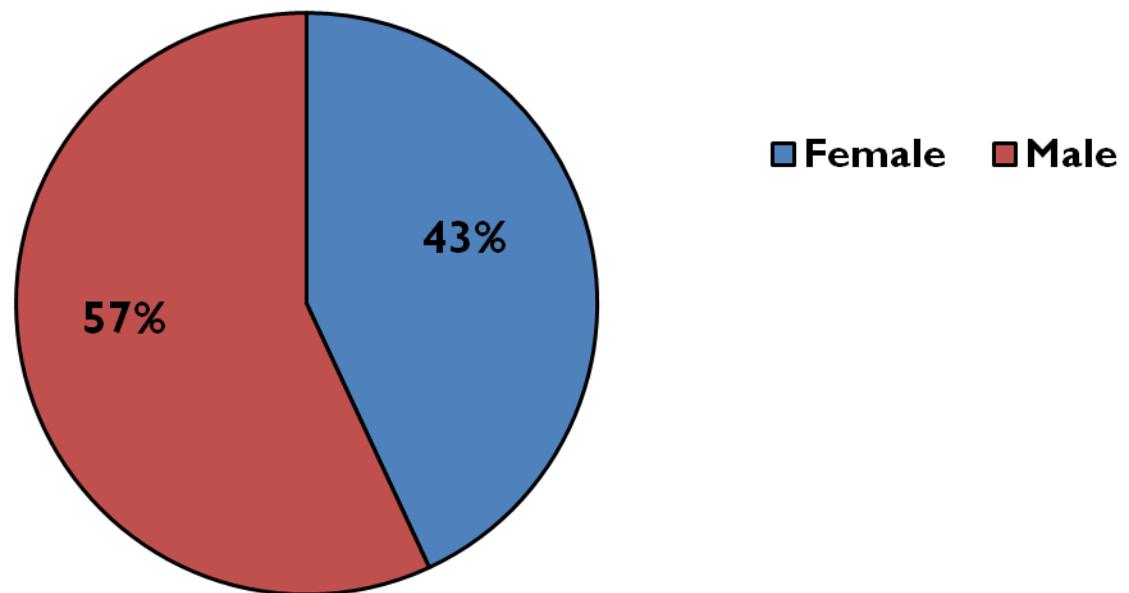
Bloodborne Disease Summary

Age Distribution of Hepatitis B Cases: 1998-2007



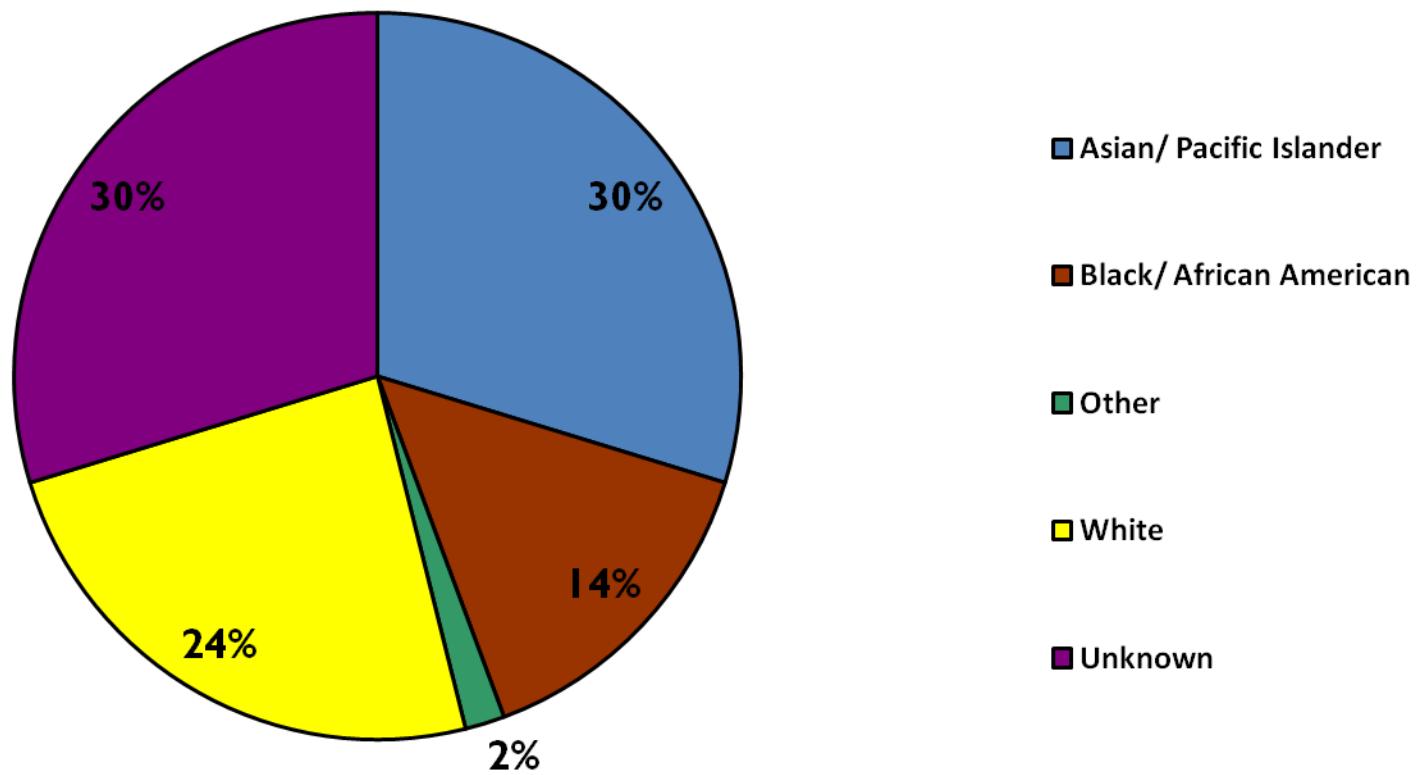
Bloodborne Disease Summary

Hepatitis B Cases by Gender: 1998-2007



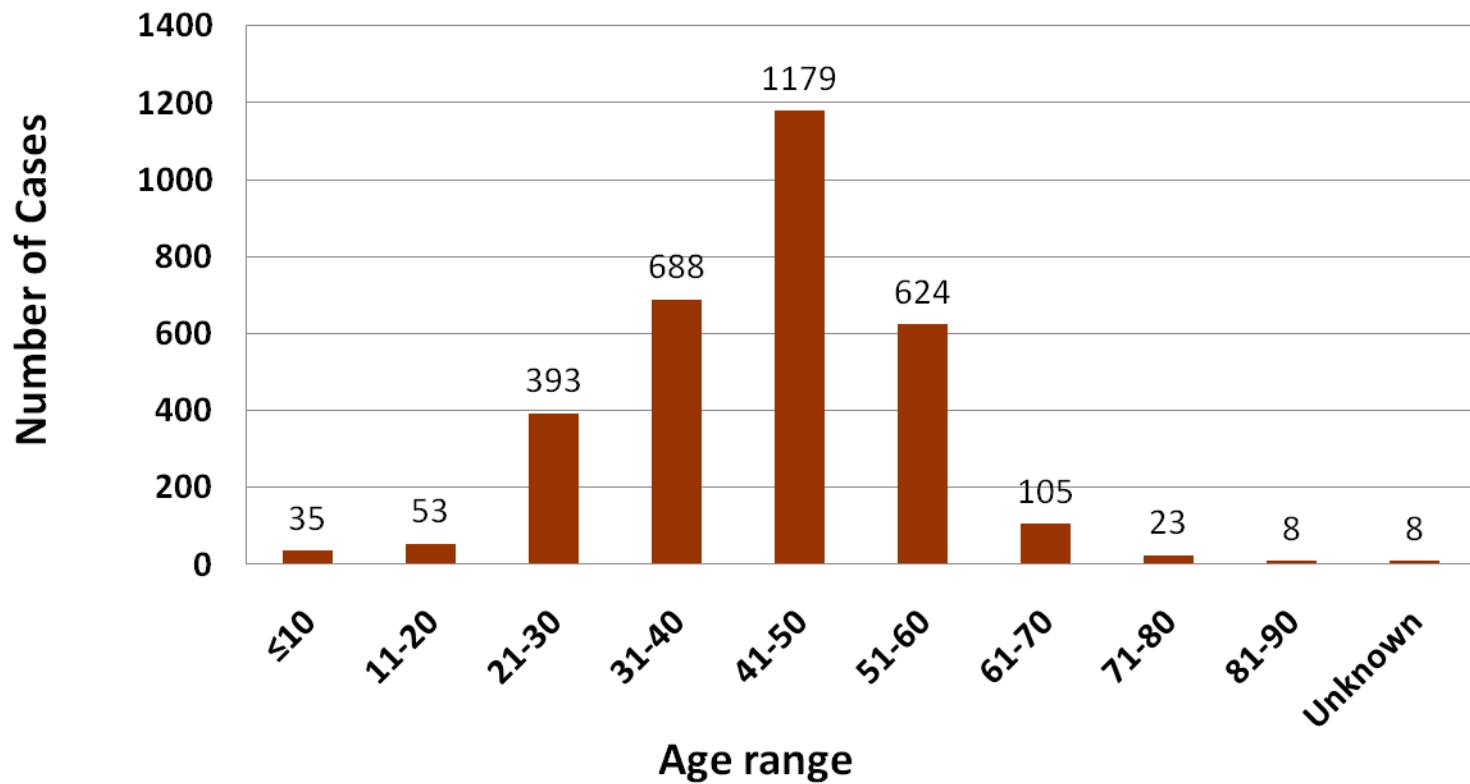
Bloodborne Disease Summary

Hepatitis B Cases by Race: 1998-2007



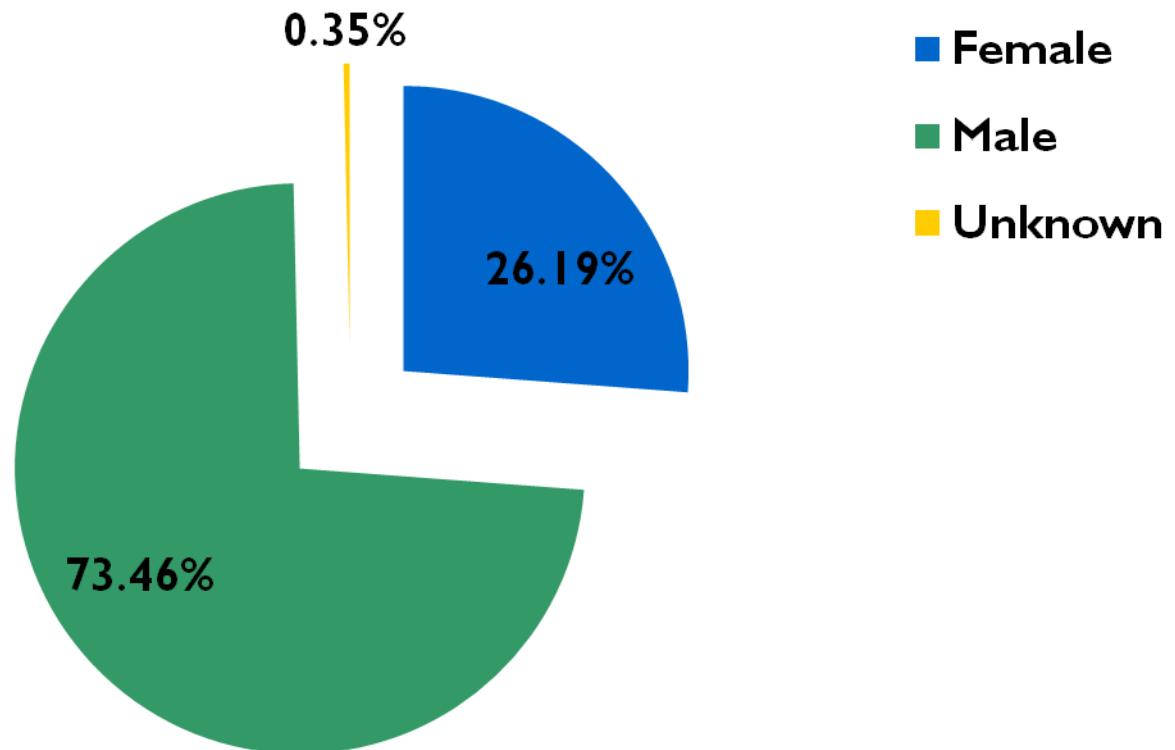
Bloodborne Disease Summary

Age Distribution of Hepatitis C Cases: 1998-2007



Bloodborne Disease Summary

Hepatitis C Cases by Gender: 1998-2007

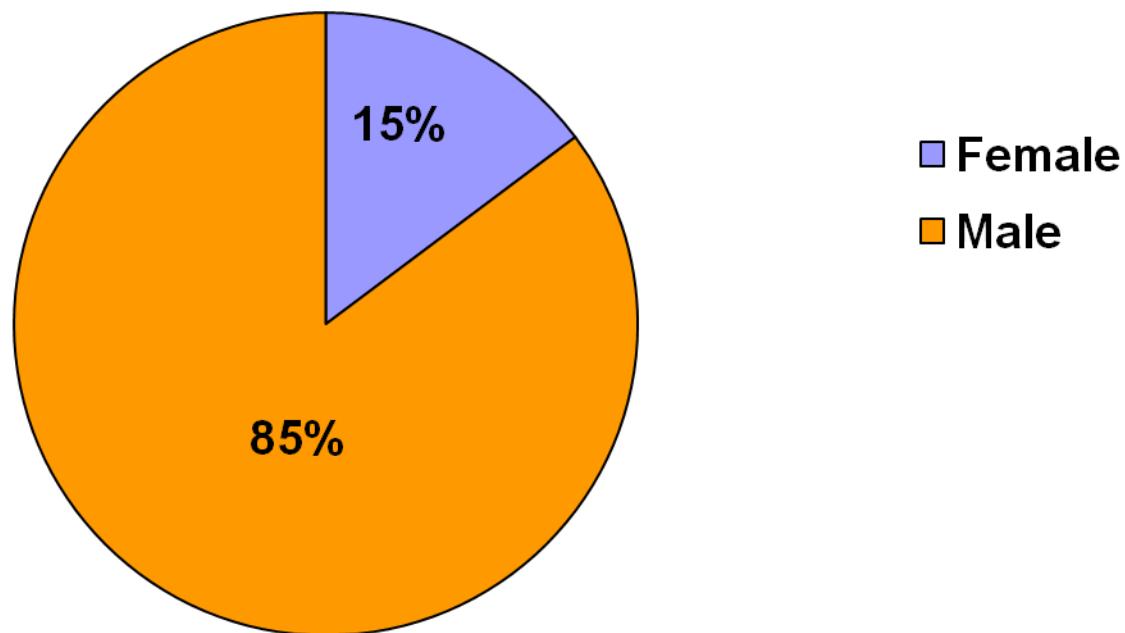


Bloodborne Disease Summary

- **Descriptive Epidemiology: 1998 - 2008**
 - HIV/AIDS
 - Age at time of epidemiologic intervention:
 - Average age 38
 - Minimum age 12
 - Maximum age 67
 - 13% history of incarceration
 - 66% history of substance abuse
 - 8% of cases are foreign born
 - 62% of cases are bisexual men or men who have sex with men (MSM)
 - 3.8% history of co-infection
 - 2.5% Chlamydia, Gonorrhea, Herpes, or Syphilis
 - 1.3% Tuberculosis

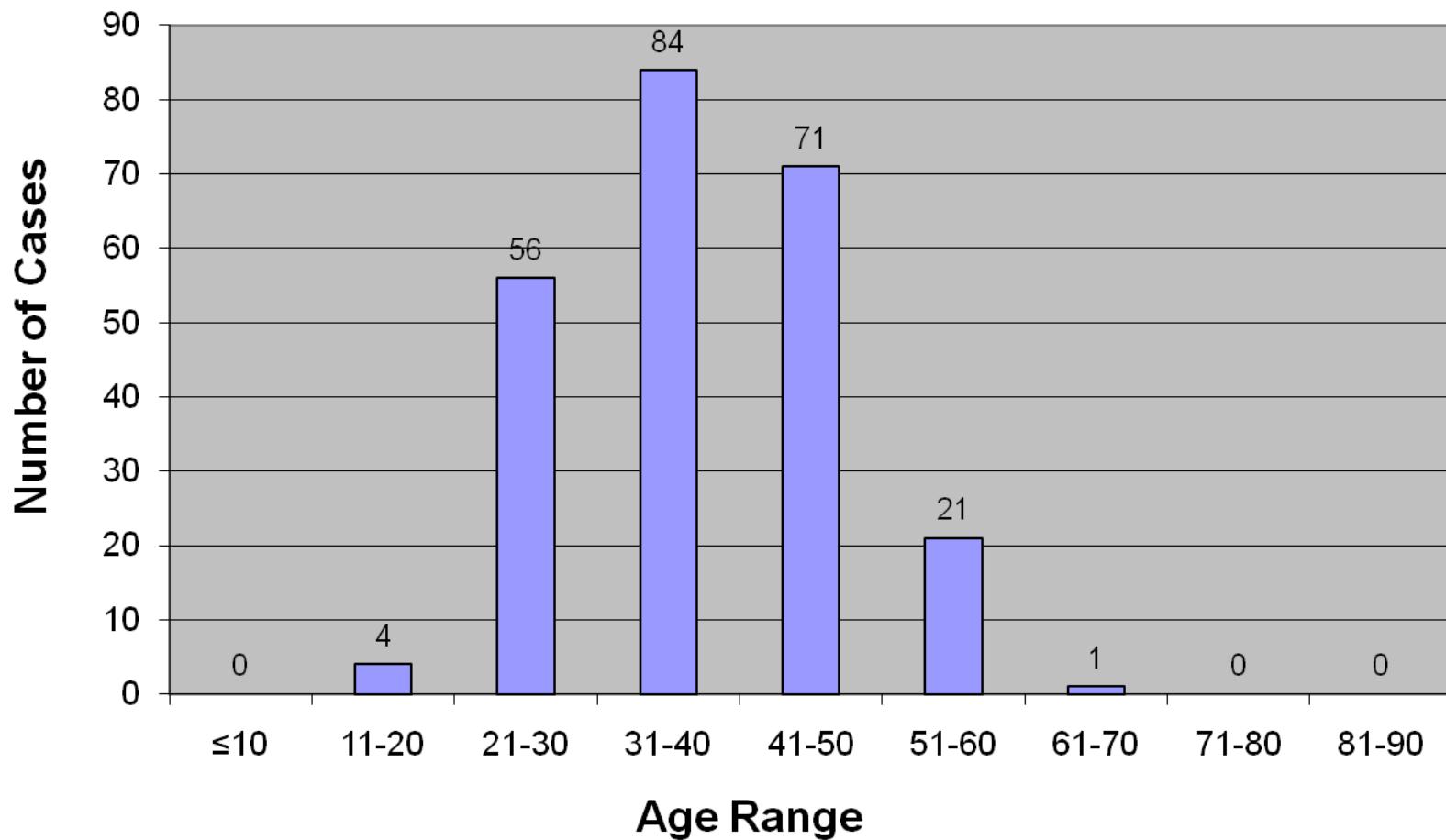
Bloodborne Disease Summary

HIV/AIDS Incidence by Gender: 1998-2008



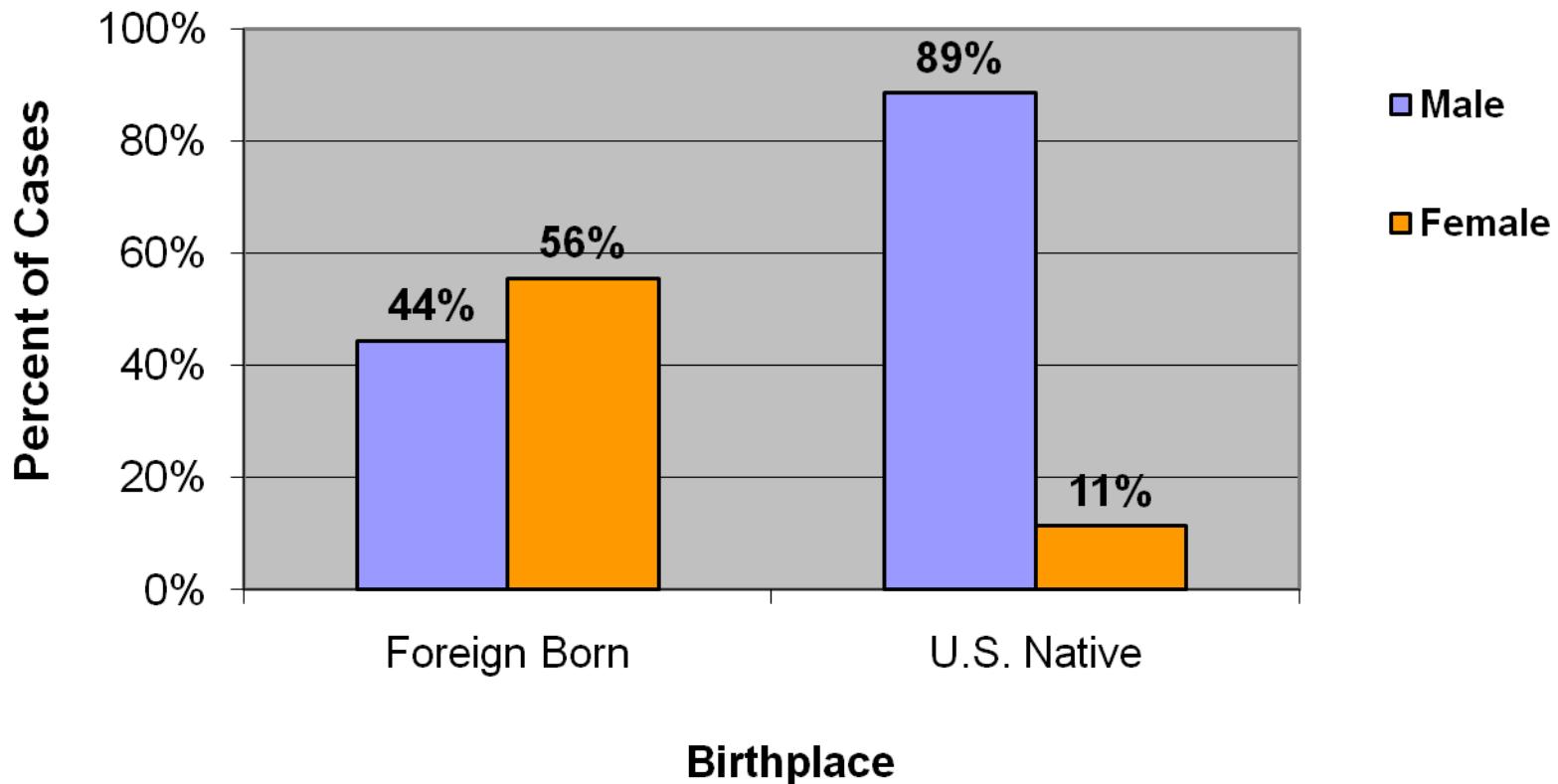
Bloodborne Disease Summary

**Age Distribution (at date of intervention) of HIV/AIDS Cases
1998-2008**



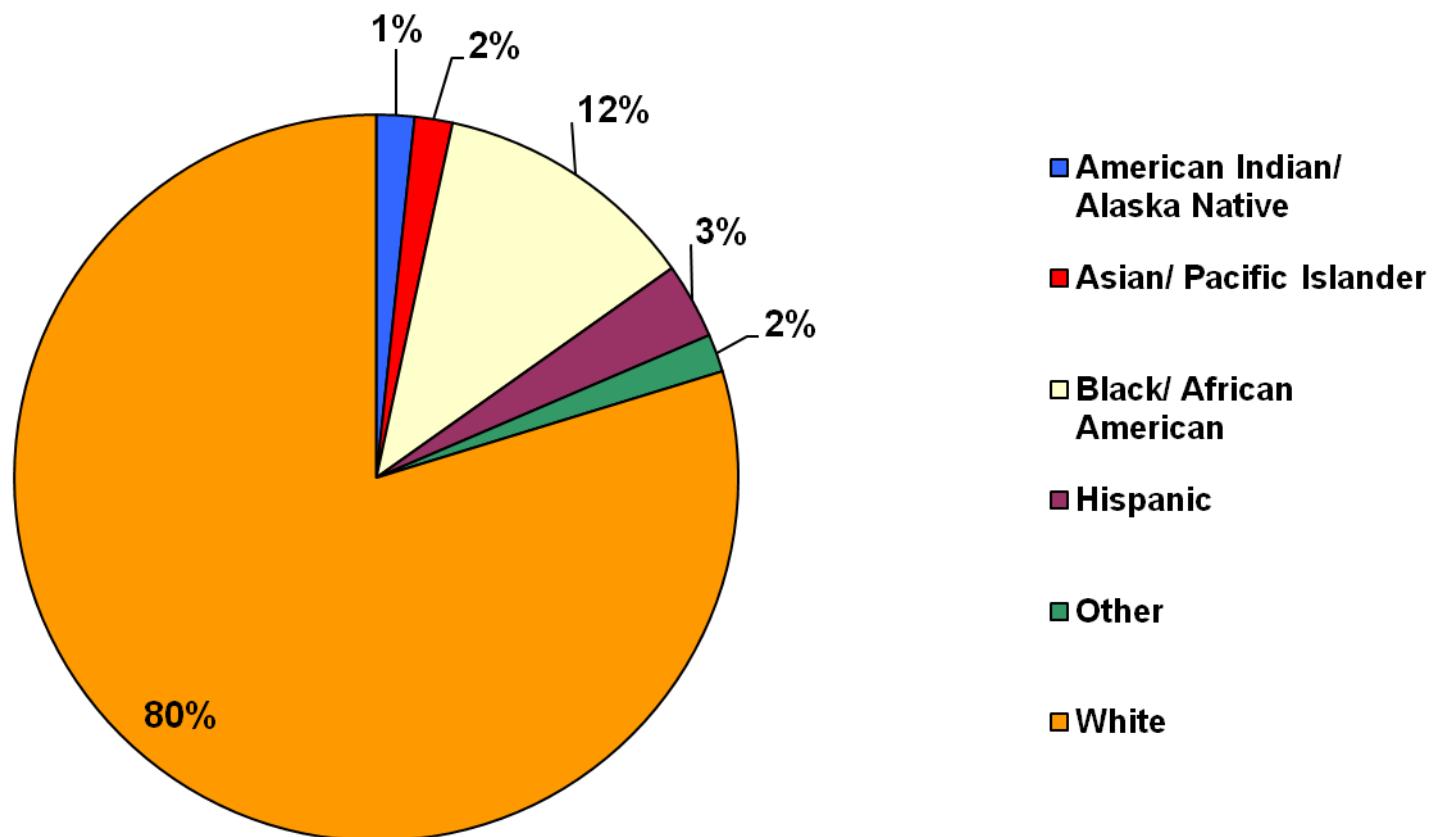
Bloodborne Disease Summary

Percent of HIV/AIDS Cases by Birthplace and Gender: 1998-2008



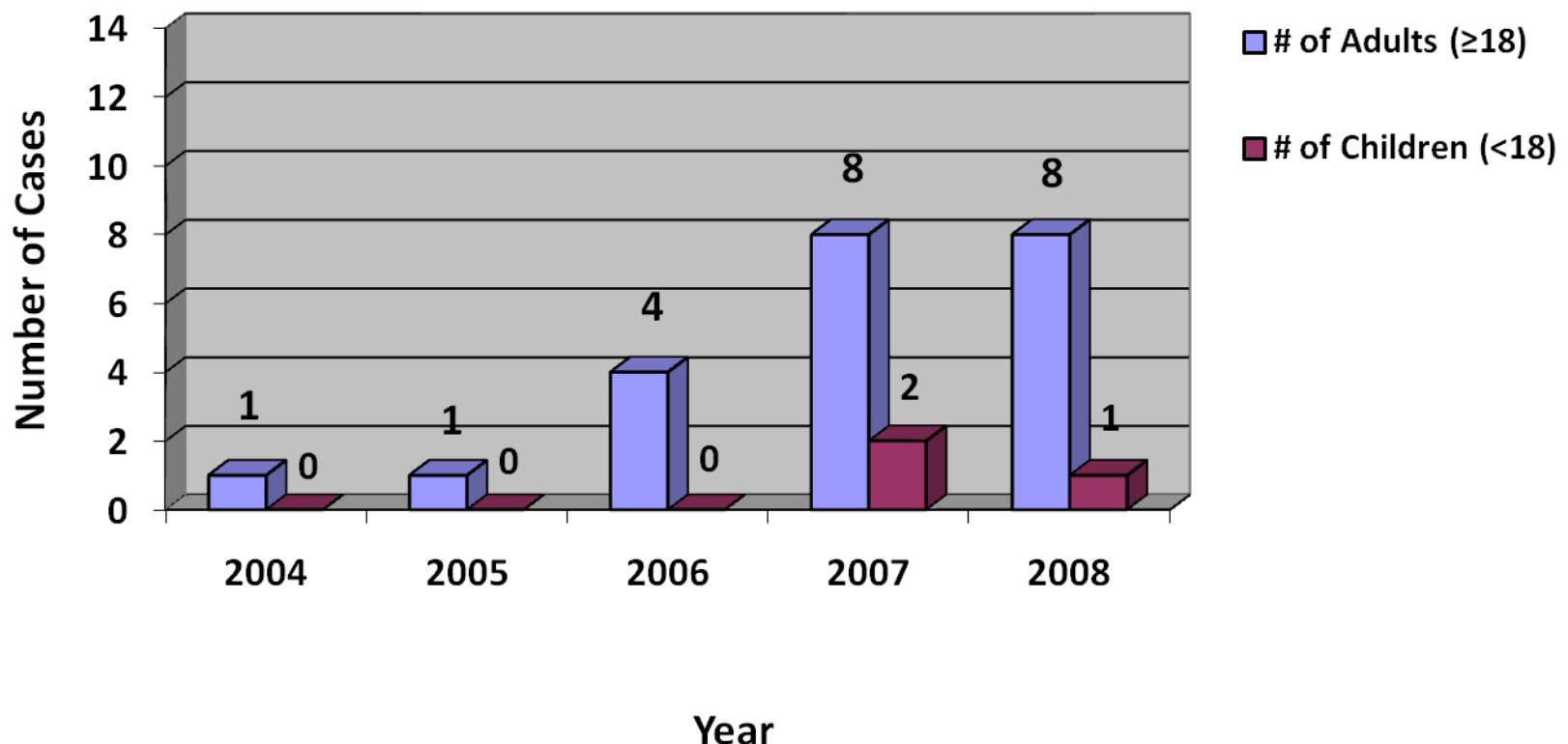
Bloodborne Disease Summary

Percent of HIV/AIDS Cases by Race: 1998 - 2008



HIV Among Newly Arriving Immigrants

Immigrants Arriving with HIV Infection



Infectious Diseases



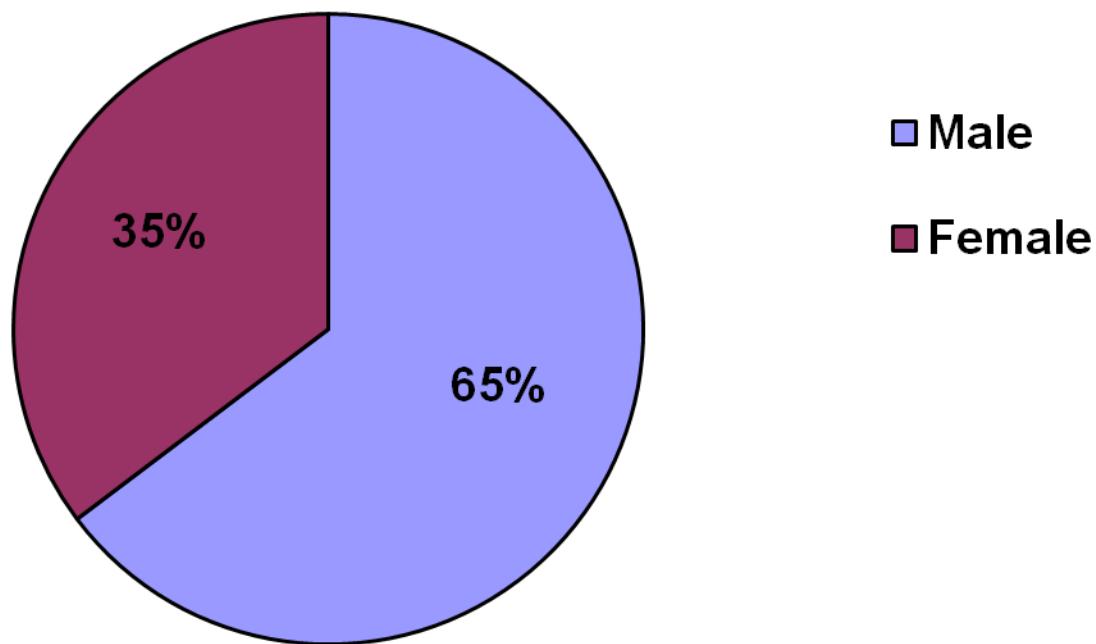
TUBERCULOSIS

Tuberculosis Summary

- Active pulmonary disease
 - Descriptive epidemiology: 1995-2008
 - 50% White
 - 65% Male
 - 47% U.S. born
 - 17.6% history of substance abuse
 - 2.9% history of incarceration
 - 20.6% history of homelessness

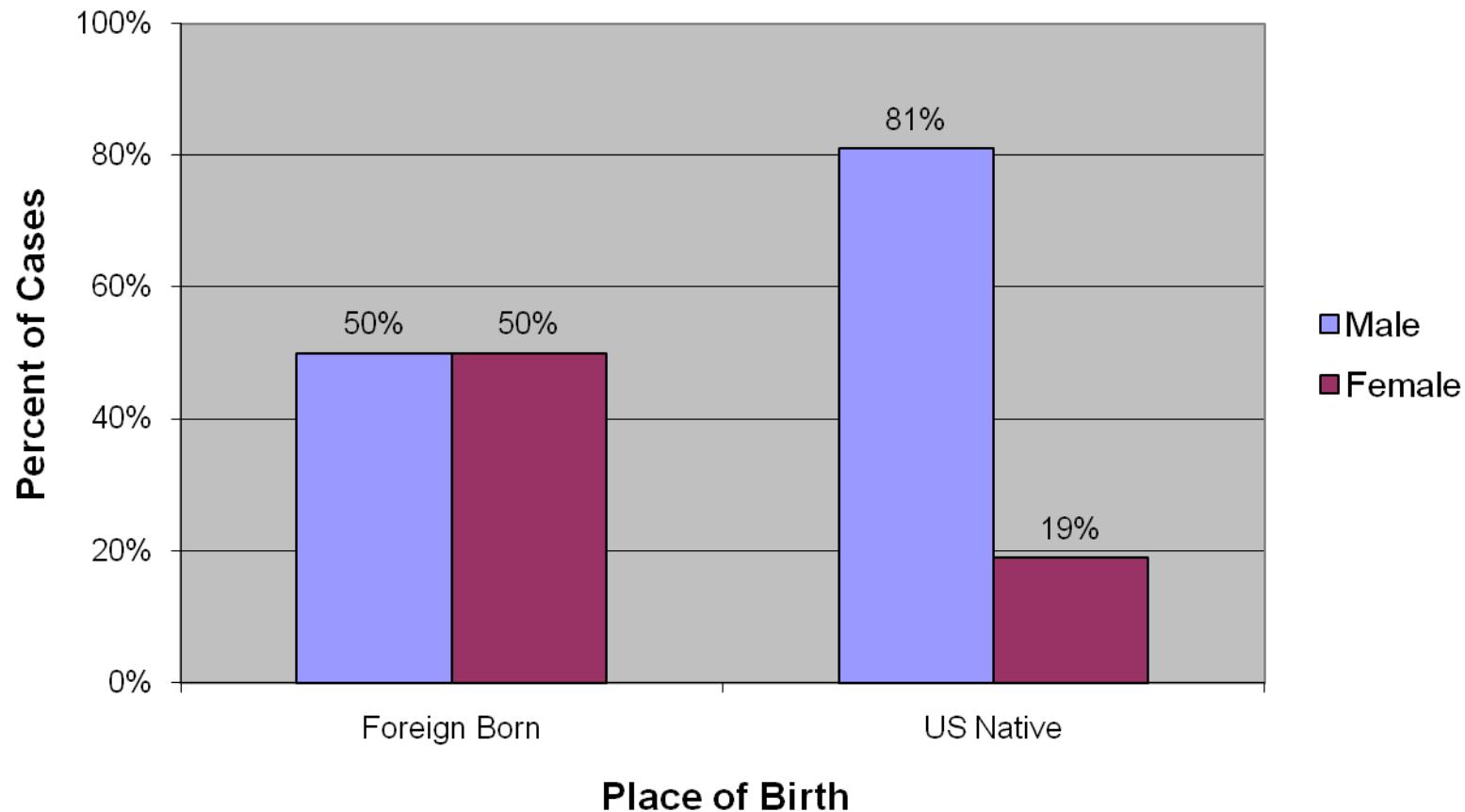
Tuberculosis Summary

TB Incidence by Gender: 1995-2008



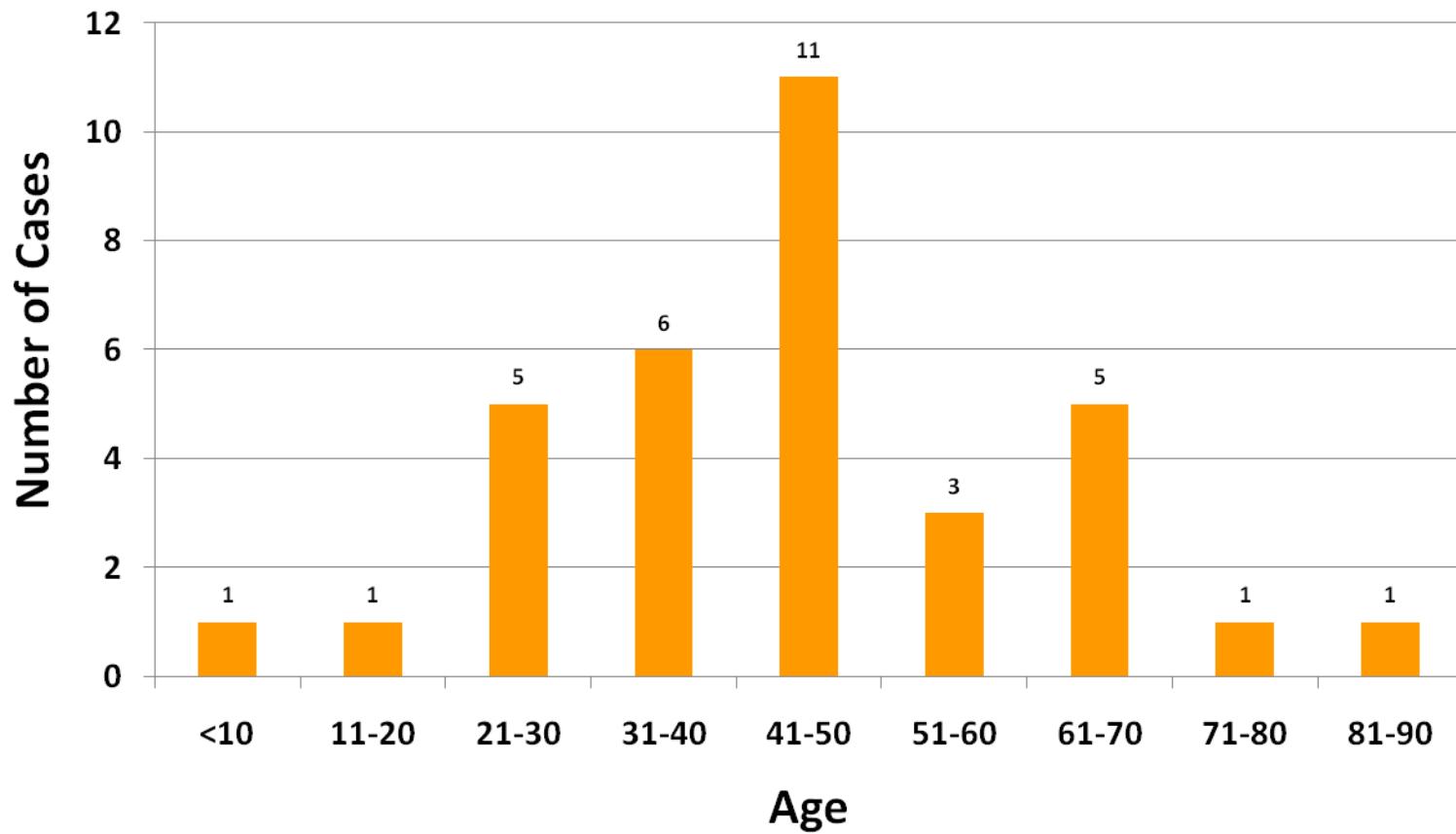
Tuberculosis Summary

TB Incidence by Place of Birth: 1995-2008



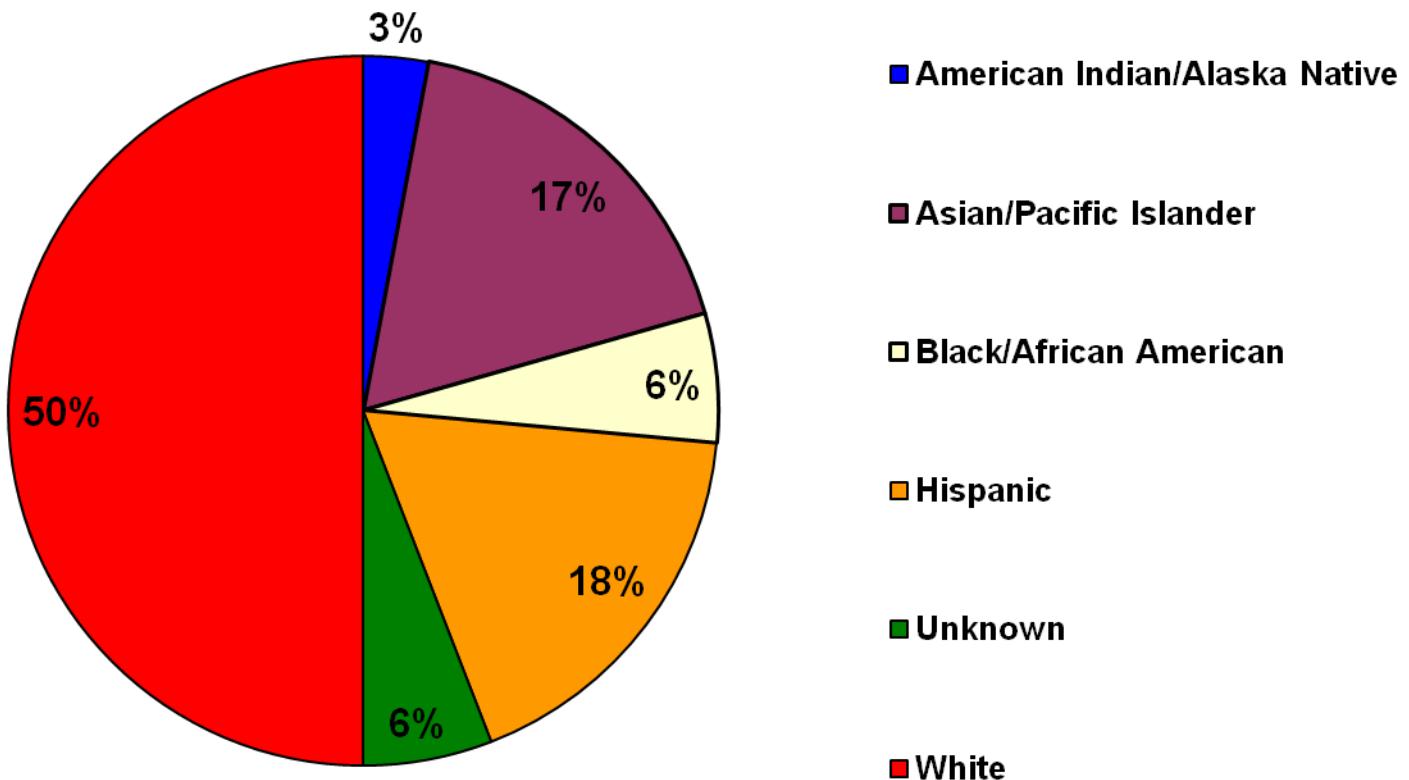
Tuberculosis Summary

**TB Incidence by Age
1995-2008**



Tuberculosis Summary

TB Incidence by Race: 1995-2008

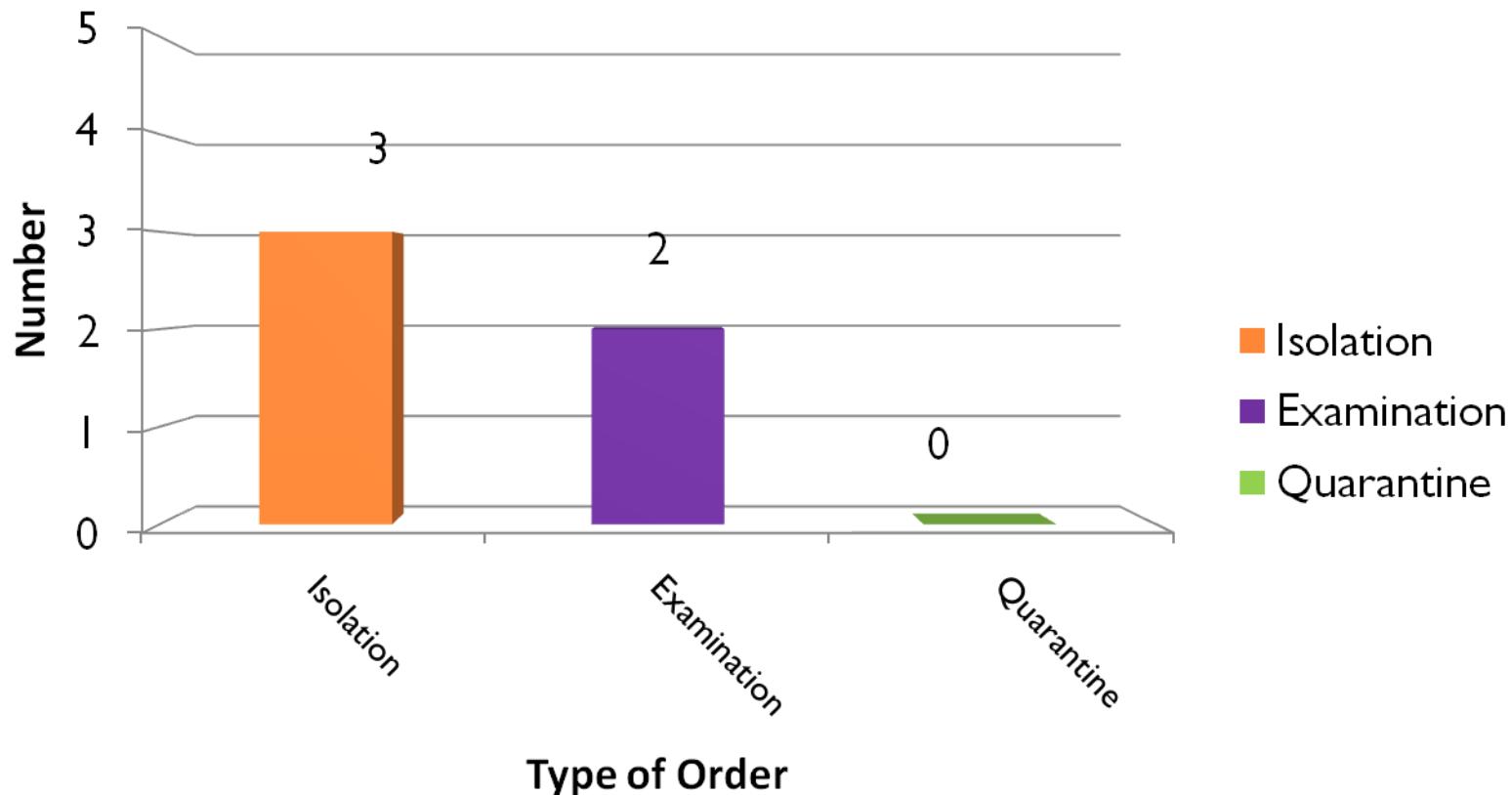


Infectious Diseases

- **LEGAL AUTHORITY**

Legal Authority Summary

Legal Orders: 2007 - 2008

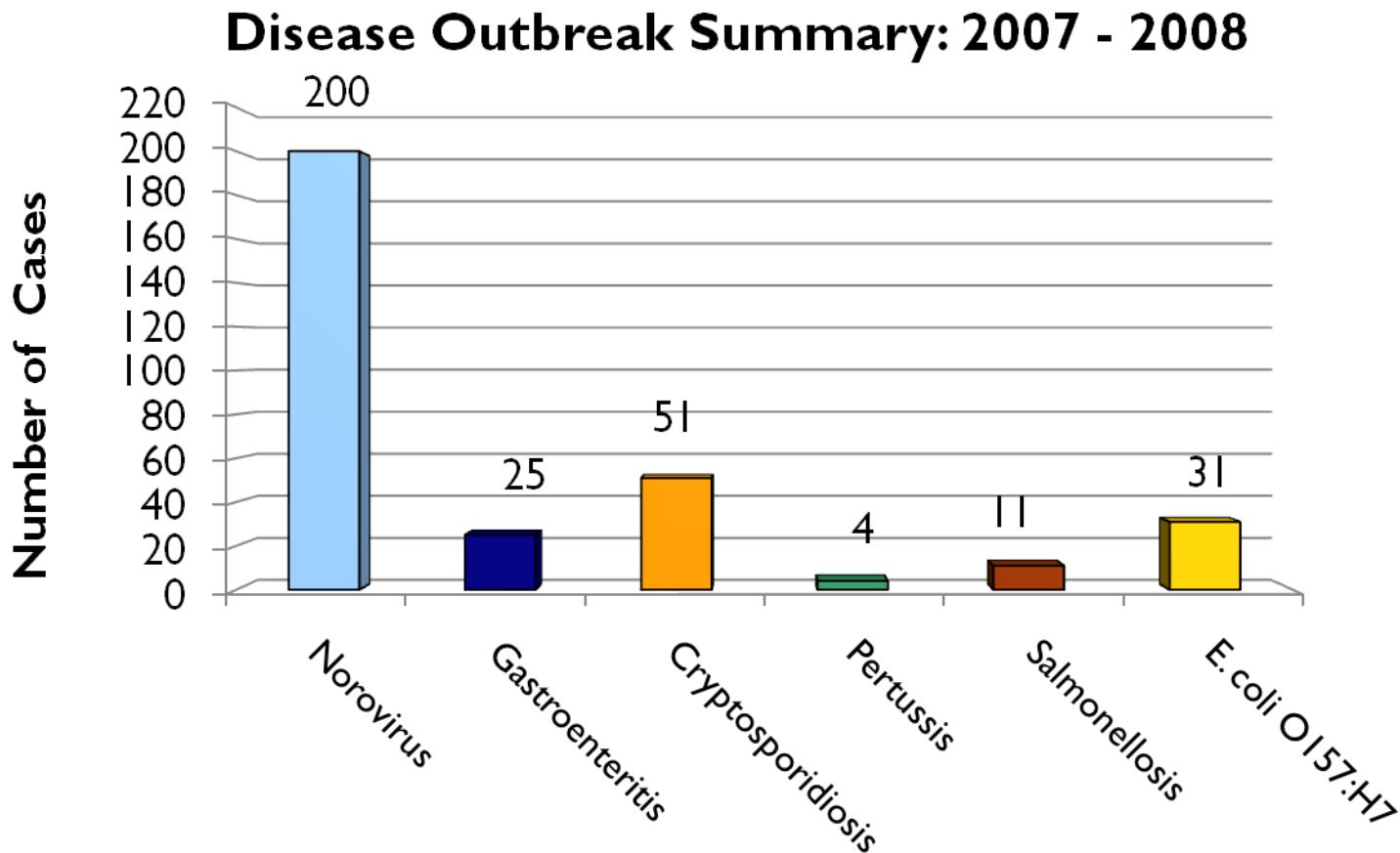


Infectious Diseases



OUTBREAK SUMMARY

Outbreak Summary



The above graph displays the number of cases epidemiologically linked with one or more outbreaks of each disease listed.

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